

Zack Edward Sullivan

Dept. of Physics, LS 206
Illinois Institute of Technology
3101 S. Dearborn St.
Chicago, IL 60616-3793

(312) 567-3304 (phone)
(312) 567-3494 (fax)
Zack.Sullivan@iit.edu

Research and Professional Experience

Associate Professor	Illinois Institute of Technology	2014–present
Assistant Professor	Illinois Institute of Technology	2008–2014
Research Assistant Professor	Southern Methodist University	2007–2008
Visiting Physicist	University of Chicago	2006
Assistant Physicist	Argonne National Laboratory	2005

Education and Training

Fermi National Accelerator Laboratory	Physics	Post Doc	2001–2005
Argonne National Laboratory	Physics	Post Doc	1998–2001
University of Illinois at Urbana-Champaign	Physics	Ph.D.	1998
University of Illinois at Urbana-Champaign	Physics	M.S.	1994
Johns Hopkins University	Physics&Math	B.A.	1993

Synergistic Activities

Co-organizer of the CTEQ Summer Schools; also lectured in 2007, 2009, 2011, 2014.

Chairman of the XLIIIrd International Symposium on Multiparticle Dynamics, IIT, September 15–20, 2013.

Organizer of the Top Quark parallel session of the APS DPF 2011 conference, Providence, RI, August 2011.

Local organizer of NuFact09: 11th International Workshop on Neutrino Factories, Superbeams and Beta Beams, Illinois Institute of Technology, July 2009.

Chairman of Collider Physics 2009: Joint Argonne & IIT Theory Institute, Argonne National Laboratory and Illinois Institute of Technology, May 2009.

Judge for the Chicago Public Schools Science Fairs 2010–.

Referee for *Physical Review Letters*, *Physical Review D*, *Physical Review X*, *Journal of High Energy Physics*, *Nature Communications*, *European Physical Journal C*, *Europhysics Letters*, *Computer Physics Communications*, *Annalen der Physik*, and the Particle Data Group.

Memberships

Coordinated Theoretical/Experimental Project on QCD (CTEQ) Collaboration
American Physical Society — Division of Particles and Fields
International Symposium on Multiparticle Dynamics, Board of Elders

Selected Publications

1. Seth Quackenbush and Zack Sullivan, “Parton distributions and the W mass measurement,” to appear in Phys. Rev. D [arXiv:1502.04671 [hep-ph]].
2. Daniel Duffy and Zack Sullivan, “Searching for W' bosons through decays to boosted-top and boosted-bottom jets,” Phys. Rev. D **90**, 015031 (2014) [arXiv:1307.1820 [hep-ph]].
3. Sergei Chekanov and Zack Sullivan, eds., “Proceedings of the XLIIIrd International Symposium on Multiparticle Dynamics,” 340 pgs. (IIT Press, Chicago, 2014) ISBN 978-1-61597-002-5.
4. Edmond L. Berger, Zack Sullivan, and Hao Zhang, “LHC and Tevatron constraints on a W' model interpretation of the top quark forward-backward asymmetry,” Phys. Rev. D **88**, 114026 (2013) [arXiv:1309.7110 [hep-ph]].
5. Daniel Duffy and Zack Sullivan, “Model independent reach for W' bosons at the LHC,” Phys. Rev. D **86**, 075018 (2012) [arXiv:1208.4858 [hep-ph]].
6. Zack Sullivan and Arjun Menon, “A standard model explanation of a CDF dijet excess in Wjj ,” Phys. Rev. D **83**, 091504(R) (2011) [arXiv:1104.3790 [hep-ph]].
7. Zack Sullivan and Edmond L. Berger, “Isolated leptons from heavy flavor decays: Theory and data,” Phys. Rev. D **82**, 014001 (2010) [arXiv:1003.4997 [hep-ph]].
8. Zack Sullivan and Edmond L. Berger, “Trilepton production at the CERN LHC: Standard model sources and beyond,” Phys. Rev. D **78**, 034030 (2008) [arXiv:0805.3720 [hep-ph]].
9. Zack Sullivan and Edmond L. Berger, “Missing heavy flavor backgrounds to Higgs production,” Phys. Rev. D **74**, 033008 (2006) [arXiv:hep-ph/0606271].
10. Zack Sullivan, “Angular correlations in single-top-quark and Wjj production at next-to-leading order,” Phys. Rev. D **72**, 094034 (2005) [arXiv:hep-ph/0510224].
11. Zack Sullivan, “Understanding single-top-quark production and jets at hadron colliders,” Phys. Rev. D **70**, 114012 (2004) [arXiv:hep-ph/0408049].
12. Zack Sullivan, “Fully differential W' production and decay at next-to-leading order in QCD,” Phys. Rev. D **66**, 075011 (2002) [arXiv:hep-ph/0207290].

For a complete list of publications, see: http://phys.iit.edu/~zack/ZS_CVfullpub.pdf